

Title (en)

SYNTHESIS OF N-(2,4-DINITROPHENYL)-4-NITROBENZAMIDE (TNBA) USING SOLID ACID CATALYSTS

Title (de)

SYNTHESE VON N-(2,4-DINITROPHENYL)-4-NITROBENZAMID (TNBA) UNTER VERWENDUNG VON FESTEN SÄUREKATALYSATOREN

Title (fr)

SYNTHÈSE DE N-(2,4-DINITROPHÉNYL)-4-NITROBENZAMIDE (TNBA) À L'AIDE DE CATALYSEURS ACIDES SOLIDES

Publication

**EP 4165014 B1 20240529 (EN)**

Application

**EP 21736468 A 20210608**

Priority

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- US 2021036296 W 20210608

Abstract (en)

[origin: US2021387942A1] A method of making N-(2,4-dinitrophenyl)-4-nitrobenzamide from a mixture of 2,4-dinitroaniline, 4-nitrobenzoyl chloride, and solid acid catalyst in an organic solvent, wherein the solid acid catalyst is not soluble in the organic solvent, the solid acid catalyst being an acidic clay, an ion exchange resin, a beta zeolite, a sulfonated tetrafluoroethylene-based fluoropolymer-copolymer, or some mixture of these.

IPC 8 full level

**C07C 231/02** (2006.01); **C07C 233/66** (2006.01)

CPC (source: EP KR US)

**B01J 8/006** (2013.01 - KR); **B01J 8/02** (2013.01 - US); **B01J 8/04** (2013.01 - KR); **B01J 19/14** (2013.01 - US); **B01J 21/16** (2013.01 - US); **B01J 29/7007** (2013.01 - US); **B01J 39/20** (2013.01 - US); **C07C 231/02** (2013.01 - EP KR); **C07C 231/14** (2013.01 - US); **C07C 231/24** (2013.01 - KR); **C07C 233/66** (2013.01 - KR); **B01J 21/16** (2013.01 - KR); **B01J 29/7007** (2013.01 - KR); **B01J 31/06** (2013.01 - KR); **B01J 31/08** (2013.01 - KR); **B01J 2219/00051** (2013.01 - US)

C-Set (source: EP)

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DOCDB simple family (publication)

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